Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_\_\_\_/30 pts

**AP Biology Lab Report Rubric**

**Reports must be typed AND printed.**

*Due at the beginning class on due date. Each day late = minus one letter grade*

**Cover page with title, name, date of investigation, and due date \_\_\_\_\_\_\_/ 1 pt**

* Title concisely and accurately explains the purpose of the investigation (e.g., the effect of additional nitrogen fertilizer on the growth rate of corn)

**Abstract \_\_\_\_\_\_\_/ 2 pts**

* A summary of a fewer than 100 words of the lab investigation including statement of problem/question you are investigating.

**Introduction \_\_\_\_\_\_/ 3 pts**

* Accurate background information which helps reader understand key points of lab
* Purpose of the investigation; how the investigation answers a specific question; curricular context

**Hypothesis \_\_\_\_\_/ 2 pts**

* Format: “If…[IV changes]…then [DV changes]…because…”.
* Clearly states relationship between independent and dependent variables and gives reasoning for prediction.

**Materials \_\_\_\_\_\_\_/ 2 pts**

* Make a list of ALL materials used in this experiment *(for example include spoon if you used it to scoop the potato much);* Be sure to include quantities

**Procedures \_\_\_\_\_\_\_/ 3 pts**

* Write a list of instructions that explains what you did in your lab. Written so that anyone reading your lab report will be able to duplicate (copy) the experiment

**Results/Data \_\_\_\_\_\_\_/ 5 pts**

* Includes data table for each tested variable. Make sure labelled/titled accurately
* Includes a graph of the data which is labeled appropriately (title, labeled x and y axis, data, etc.)
* Include picture(s) of the investigation

**Analysis and Discussion \_\_\_\_\_\_\_\_\_\_/6 pts**

* Interpret the data. It should consider the relationship between the results obtained and the hypotheses and the theory on which the hypothesis was based. Include a summary of the data (ex. highest, lowest, etc.) to help the reader understand your results. \_\_\_ / 3 pts.
* What is a possible error that may have occurred during the experiment? Explain how the error could have affected the data. Include adjustments/improvements for future experiments. \_\_\_/ 2 pts.
* What is one thing you learned from the lab and relate it to a larger concept idea in biology or real life example. \_\_\_ /1pt.

**Conclusion \_\_\_\_\_/ 3 pts**

* Was your hypothesis supported (or not supported) by the data? \_\_\_\_ / 1pt.

* Why do you say that your hypothesis was supported or not supported by the data? Use data in your explanation \_\_\_/ 2pts.

**Questions \_\_\_\_\_/ 1 pt**

* What are questions for further investigation? What new questions arise from the results of the investigation?

**Literature Cited \_\_\_\_\_/ 1 pt**

* Valid sources cited within report and listed at end of report

**Correct use of language and consistent formatting \_\_\_\_\_/ 1 pt**

* Grammar, punctuation (including subscripts/superscripts) and spelling all correct
* Formatting, headings, font etc. consistent throughout report